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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/625,626	07/26/2000	William C.Y. Lee	139.136USU1 8528	
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GATES & COOPER LLP			RAMPURIA, SHARAD K	
110	GHES CENTER DRIVE WEST, SUITI	F 1050	ART UNIT	PAPER NUMBER
LOS ANGELE	•	2 1000	2617	

DATE MAILED: 08/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)	
		09/625,626	LEE ET AL.	
		Examiner	Art Unit	
		Sharad Rampuria	2617	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
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Status				
2a)⊠	Responsive to communication(s) filed on <u>01 Ju</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5) □ 6) ☑ 7) □ 8) □ Applicati 9) □ 10) □	Claim(s) 1-10,12-25 and 27-30 is/are pending if 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-10,12-25 and 27-30 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner The oath or declaration is objected to be the oath or declaration is objected to be the oath or declaration is objected to be the oath of the oath or declaration is objected to be the oath of	vn from consideration. r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to be in the drawing(s) is objected in the drawi	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
		armior. Note the attached emoc	7.00.011 01 101111 1 1 0 1 0 2.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
2) Notic 3) Inform	k(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa		

DETAILED ACTION

I. The Art Unit location of this application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

The current office-action is in response to the amendments/arguments filed on 06/01/2006.

Accordingly, Claims 11 and 26 are cancelled and Claims 1-10, 12-25, 27-30 are pending for further examination as follows:

Claim Rejections - 35 USC § 103

- II. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5-6, 12-16, 18, 20-21, and 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tayloe et al. (USP 5095500) in view of Keskitalo et al. (USP 6091788).

Regarding Claim 1, Tayloe disclosed a method for operating a wireless network (abstract), comprising:

(a) Collecting and analyzing information from the wireless network into a collection and analysis system coupled to the wireless network (OMCU; 116; Fig.1; Col.5; 25-39), wherein the

information includes location information on mobile transceivers operating within the network; (Col.5; 25-39) and

Tayloe fails to disclosed optimizing the wireless network's operation from a network control system coupled to the wireless network by intelligently steering radio frequency (RF) signal beams in the direction of one or more mobile transceivers using the collected and analyzed information. However, Keskitalo teaches in an analogous art, that (b) Optimizing the wireless network's operation from a network control system coupled to the wireless network by intelligently steering radio frequency (RF) signal beams in the direction of one or more mobile transceivers using the collected and analyzed information. (Abstract, Col.3; 53-64, Col.7; 51-63) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Tayloe including optimizing the wireless network's operation from a network control system coupled to the wireless network by intelligently steering radio frequency (RF) signal beams in the direction of one or more mobile transceivers using the collected and analyzed information in order to provide a method for steering an antenna beam in a base station equipment, in which method a signal is received and transmitted by an antenna array consisting of several elements by phasing the signal to be received and transmitted such that the gain from the antenna array is the greatest in the desired directions.

Regarding Claim 3, Tayloe disclosed The method of claim 1, wherein the information further includes one or more types of information selected from a group comprising Hand Off (HO) information, Power information, Measurements, and System Parameters from the wireless network. (col.4: 51-col.5; 5)

Regarding Claim 5, Tayloe disclosed The method of claim 1, wherein the optimizing step further comprises dynamically allocating radio frequency (RF) signal power in the wireless network based on the collected and analyzed information (Col.5; 1-5).

Regarding Claim 6, Tayloe disclosed The method of claim 5, wherein the dynamically allocating step further comprises dynamically assigning radio frequency (RF) signal power to cells, sectors within cells, and mobile transceivers based on the collected and analyzed information (Col.5; 1-5 & col.6; 9-15).

Regarding Claim 12, Tayloe teaches all the particulars of the claim except wherein the intelligently steering step further comprises intelligently forming an RF signal beam based on the collected and analyzed information. However, Keskitalo teaches in an analogous art, that the method of claim 11, wherein the intelligently steering step further comprises intelligently forming an RF signal beam based on the collected and analyzed information. (Abstract, Col.3; 53-64, Col.7; 51-63)

Regarding Claim 13, Tayloe disclosed The method of claim 1, further comprising identifying and resolving problems using the collected and analyzed information. (Col.5: 40-52)

Regarding Claim 14, Tayloe disclosed The method of claim 13, wherein the identifying and resolving step further comprises identifying problems in the wireless network, and correlating the identified problems with the collected and analyzed information. (Col.5: 40-52)

Regarding Claim 15, Tayloe disclosed The method of claim 14, wherein the correlating step further comprises correlating the identified problems with mobile transceiver location information from the collected and analyzed information. (Col.5: 40-52)

Claims 16, 18, 20-21, and 27-30 are the system claim corresponding to method claims 1, 3, 5-6, 12-15 respectively, and rejected under the same rational set forth in connection with the rejection of claims 1, 3, 5-6, 12-15 respectively, above.

III. Claims 2, 4, 7-10, 17, 19, 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tayloe and Keskitalo further in view of Montoya. (USP 5983109).

Regarding Claim 2, the above combinations disclosed all the particulars of the claim except E911 location information. However, Montoya teaches in an analogous art, that the method of claim 1, wherein the location information comprises E911 location information.

(Col.2; 47-50 & col.6; 51-59) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include E911 location information in order to locate the mobile unit with a high level of certainty.

Regarding Claim 4, the above combinations disclosed all the particulars of the claim except wherein the information is collected when certain defined thresholds are triggered. However, Montoya teaches in an analogous art, that The method of claim 1, wherein the information is collected when certain defined thresholds are triggered. (col.5; 53-col.6; 8)

Regarding Claim 7, the above combinations disclosed all the particulars of the claim except setting dynamic dedicated handoff (HO) thresholds for individual mobile transceivers based on the collected and analyzed information. However, Montoya teaches in an analogous art, that The method of claim 1, wherein the optimizing step further comprises setting dynamic dedicated handoff (HO) thresholds for individual mobile transceivers based on the collected and analyzed information. (col.6: 10-19)

Regarding Claim 8, the above combinations disclosed all the particulars of the claim except the individual mobile transceivers each have a unique, assigned HO (hand off) threshold. However, Montoya teaches in an analogous art, that The method of claim 7, wherein the individual mobile transceivers each have a unique, assigned HO (hand off) threshold. (col.6: 10-19)

Regarding Claim 9, the above combinations disclosed all the particulars of the claim except performing handoffs for individual mobile transceivers based on their unique, assigned HO (hand off) threshold and their location. However, Montoya teaches in an analogous art, that The method of claim 8, wherein the optimizing step further comprises performing handoffs for

individual mobile transceivers based on their unique, assigned HO (hand off) threshold and their location. (col.6: 10-19)

Regarding Claim 10, the above combinations disclosed all the particulars of the claim except the performing step comprises performing handoffs for individual mobile transceivers in order to minimize interference levels. However, Montoya teaches in an analogous art, that The method of claim 9, wherein the performing step comprises performing handoffs for individual mobile transceivers in order to minimize interference levels. (col.6: 34-50)

Claims 17, 19, 22-25 are the system claim corresponding to method claims 2, 4, 7-10, respectively, and rejected under the same rational set forth in connection with the rejection of claims 2, 4, 7-10 respectively, above.

Response to Arguments

IV. Applicant's arguments with respect to claims 1-10, 12-25, 27-30 has been considered but is moot in view of the new ground(s) of rejection.

Conclusion

V. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO Application/Control Number: 09/625,626

Art Unit: 2617

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870. The examiner can normally be reached on M-F. (8:30-5).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://portal.uspto.gov/external/portal/pair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree) or EBC@uspto.gov.

> Sharad Rampuria Patent Examiner Art Unit 2617

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